Ins-40002-US PROXIMITY P series reader - UL

Technical Support

1.800.672.7298 supportUS@paxton-access.com

Technical help is available: Monday - Friday from 02:00 AM - 8:00 PM (EST)

Documentation on all Paxton products can be found on our web site - http://www.paxton-access.com/

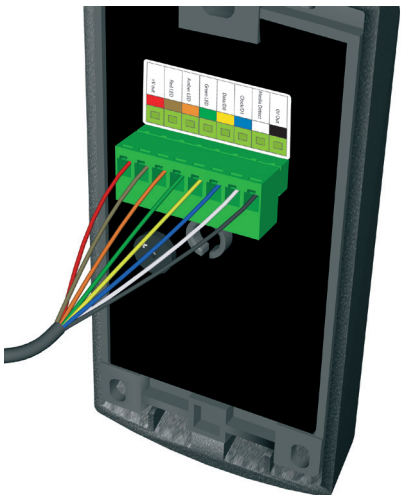
Mounting

P75 Screw connector option

NOTE: The unit should be mounted in conjunction with an electrical backbox to achieve the required clearance for the connector.

If an adaptor plate (310-750-US) is fitted, the mountings on the backbox can also be used.

This unit is for Indoor use only

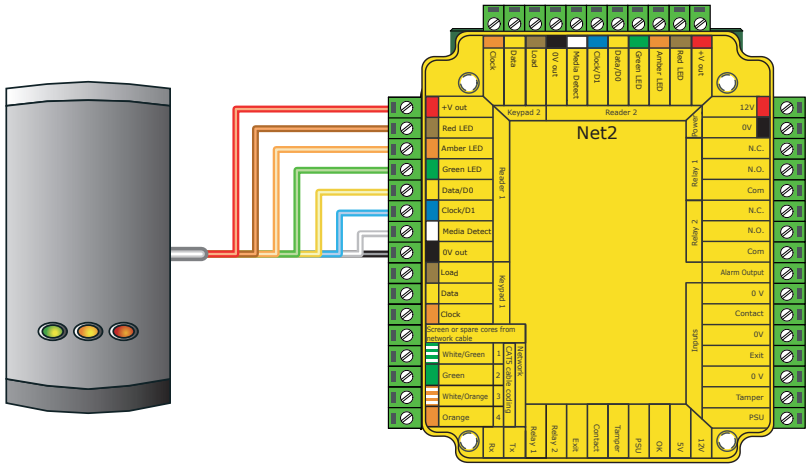


This reader is designed to read EM4100 tokens. It will provide Clock and Data output for Paxton (Net2 / Switch2).

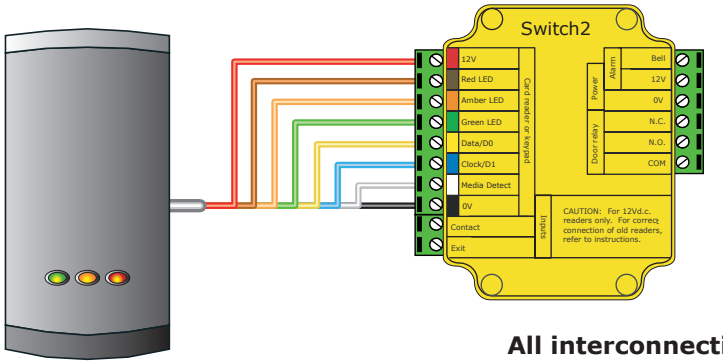
Suitability

Security sensitive doors	✓	Mounted on metal surface	✗
Wet environments	✓	Readers mounted together	**12 inches** between readers

Wiring



Net2 control unit



Switch2 control unit (not evaluated by UL)

All interconnecting devices must be UL Listed.

Options	
Part number	**Description**
353-110-US	PROXIMITY P50 reader
373-110-US	PROXIMITY P75 reader
373-120-US	PROXIMITY P75 reader - screw connection

Cable extensions

Cable Specification		
Use	**Max length**	**Type**
Reader / Keypad	500 feet	8 core, shielded - Belden 9538, Alpha 1298C (22AWG) or equivalent

NOTE: Where selected, any equivalent cabling / wire must be ' UL Listed '

Fitting Kit		
Option	**Part number**	**Description**
P50	Fitting Kit fk1-085	(5) Cable clips
		(3) No6 x 3/4 woodscrew - zinc
		(3) Wall plugs 22 mm
		(1) 8 mm x 3 mm small self tapping screw - zinc
P75	Fitting Kit fk1-084	(5) Cable clips
		(3) No8 x 1 woodscrew - zinc
		(3) Wall plugs 35 mm
		(1) 8 mm x 3 mm small self tapping screw - zinc

Unit installation / test

When chosing a location for the reader, ensure that it is a least 12 inches from other readers. This will include readers mounted on the other side of the same wall as the radio signal will cause interference and reduce the read range. The reader should not be used on metal surfaces as the reflected signal will also reduce the read range.

Standard Unit - Drill a hole in the surface for the rear data cable. Secure the unit to the surface with three screws as per fitting diagram on page 1. 3 suitable screws and fixings are provided for fitting the unit to a wall. Ensure the data cable has free access at the rear.

A choice of black and white covers are also provided. Hook the required cover over the top of the reader, press home at the bottom and secure with the single fixing screw.

Screw Terminal Unit - The adapter (310-750-US) is mounted to a standard backbox using the fixing screws provided. The 75mm reader is then mounted onto the adapter using the fitting kit provided with the reader.

The reader will bleep and all the LEDS should display after powering on the control unit. Presenting a user card to the reader will cause the LEDs to briefly change to a single Green or Red LED.

Check the following FAQs section for assssistance if any problems are encountered.

Wiring methods shall be in accordance with the National Electrical Code (ANSI/NFPA70), local codes, and the authorities having jurisdiction.

Maintenance

Following the completed installation of this equipment, no further maintenance or testing is required.

It is advisable to ensure that any third party backup power supplies or recovery procedures are checked regularly to ensure that the operation of the Paxton system is not compromised.

FCC Compliance

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Technical Help

Here is the list of topics about this product that receive the most technical support inquiries.
We list them here to help you speed up the installation and trouble shooting process.

1 - Readers/Keypads not working.

- Software settings - Confirm that the settings of the reader or keypad are correct.
- Connections - Check the wiring and integrity of the connectors. If possible, test this reader on the other port.
- Extended cable - Belden 9538/9540 should be used up to a maximum of 500 feet. Twisted pair alarm cable should not be used. To confirm that an extended reader cable is not at fault, wire the reader directly to the port.
- Supply voltage - Confirm that the voltage is within specification. (see table)
- User token - Confirm that the user token used for testing is OK by presenting it to a known working reader.
- Interference - Confirm whether the reader works when tested 'in hand' and not mounted on the wall. PROXIMITY readers should not be mounted back to back or close to other RF devices.

2 - Readers / Keypads - Extending cable.

Only Belden CR9538 / 9540 or a UL equivalent can be used for cable extensions. The maximum run is 500 feet.

3 - Net2 - Using a door reader as a desktop reader.

It is possible to configure a door reader to operate as a desktop reader:

1 - Select the doors menu in the left hand Net2 pane.
2 - Click on the door you wish to change the reader to act as a desktop reader.
3 - Under the relevant reader tab, change the reader operating mode to 'Desktop Reader'.
4 - The PC displays 'Would you like to accept desktop reader events from this reader at the PC?' ; click 'Yes'
Now when you present a blank or existing token to that reader it will allow you to add this new token or edit the existing one.

NOTE: Remember to return the operating mode to the original setting once the cards have been read or users will not be able to gain access through the reader.

KP Reader - Ensure that Keypad type is set to 'None', otherwise the Desktop reader option will not be available.

4 - Net2. What to do if a user has no access - Check the reader LED's when a card is shown.

- No LED's - the reader has no power.
- No change in display - try the card on a known working reader. If there is still no response, replace the card.
- Green LED flashing when a card is presented; check relay 1 LED to check for activity and also the lock wiring.
- Red LED is flashing when a card is presented; check the validity of the user at the PC.
  Check user's access level and ensure they should have access by clicking on Current Validity.
  Check the 'Expires end' date and confirm this has not been past.
- Reinstate the ACU from the doors screen. Select the ACU's you wish to reinstate and then click OK.

Specifications

Environment	Min	Max	
Operating temperatures - all items	-35 °C (-31 °F)	+66 °C (+ 151 °F)	
Waterproof - P50 and P75	IPX7		Outdoor Use
Waterproof - P75 - screw connection option			Indoor Use
Cable length			10 feet
Electrical	Min	Max	
Voltage			12V DC
Current		130 mA	
Carrier frequency			125 kHz
Clock and data bit period			600 µs
Dimensions	Width	Height	Depth
P50	2 inch	4 inch	5/8 inch
P75	3 inch	5 1/2 inch	5/8 inch
Read Range	Token	Keyfob	Hands Free Token
P50	3 inch	2 inch	4 feet
P75	4 inch	2 1/2 inch	5 feet